

BEAM NOTES
Work this Index with the Table of Beam Variables in Structures Plans. All bar bend dimensions are out to out.
Concrete cover: 2 inches minimum.
Strands N: $3 /{ }^{\prime \prime} \varnothing$ minimum, stressed to 10,000 Ibs. each.
Place one (1) Bar 4 K or 5 Z at each location Ale
$4 K$ or $5 Z$ at each location. Alternate the direction of the ends for each
6. Tie Bars $4 K$ and $5 Z$ to the fully bonded strands in the bottom or center row (see "STRAND PATTERN" on the Table of Beam Variables sheet in Structures Plans).
8. For Beams with vertically beveled end conditions:
8. For Beams with vertically beveled end conditions:
A. Place first row of Bars $3 D 1,3 D 2,4 K, 4 Y$ and $5 Z$ parallel to the end of the beam Progressively rotate remaining bars within the limits of Bars $5 Z$ until vertical by adjusting the spacing at the top of beam up to a maximum of 1 .
B. For deformed WWR cut top cross wire and rotate bars as required or reduce end cover at top of the beam to minimum
A. WWR is not permitted for end reinforcement Bars 3D1, and 302 on skewed ends,
B. Use bar reinforcement.
B. Place end reinforcement parallel to the skewed end of the beam. End
reinforcement is defined as Bars $3 D 1,3 D 2,4 K, 4 Y$ and $5 Z$ placed within the limits of the spacing for Bars $3 D$ in "ELEVATION AT END OF BEAM".
C. Beyond the limits of the spacing for Bars 3D, place Bars $4 K$ perpendicular to the longitudinal axis of the beam. For placement see "SKEWED BEAM END DETAILS 10. Contractor Options:
A. Deformed WWR may be used in lieu of Bars 3D, 4 K , and $5 Z$ as shown on Sheet 4, except at skewed ends (See Note 9).
B. Bars 301 and 302 may be fabricated as a two-piece bar with a 1'-0" minimum lap
C. For deformed WWR, supplemental transverse \#4 bars are permitted to support \& $S$ under the cross wires on the bottom row of strands or above Strands N .

1. Embedment of Safety Line Anchorage Devices are permitted in the top flange to accommodate fall protection systems. See shop drawings for details and spacing of required anchorage devices. fall protection systems. See shop drawings for details and spacing of required anchorage Prestressing Strands at the end of the beam without damaging the surrounding concrete. See "STRAND
CUTING AND PROTECIING DTTAL" on Seet CUTTING AND PROTECTING DETALL" on Sheet 2
Holes in the beam web for temporary bracing
Holes in the beam web for temporary bracing or shipping devices must be formed prior to casting. A. The superstructure environmental classification is ance with Specification Section 450
B. Clear cover to ad jacent steel reinforcing is l $^{1 "}$ or slightly or moderately aggressive
C. Hole inside diameter is $2^{\prime \prime}$ maximum
may be may be left in place permanently.

END 1
CASE 3
Special Orientation for Widenings)
SCHEMATIC PLAN VIEWS AT BEAM ENDS
SCHEMATIC END ELEVATIONS OF BEAMS
(Showing Vertical Bevel of Beam End)

| $\begin{gathered} \text { LAST } \\ \text { REVISION } \\ 11 / 01 / 18 \end{gathered}$ | 尔 | DESCRIPTION: | FDOT | $\begin{gathered} \text { FY 2024-25 } \\ \text { STANDARD PLANS } \end{gathered}$ | AASHTO TYPE II BEAM | $\begin{gathered} \text { INDEX } \\ 450-120 \end{gathered}$ | SHEET 1 of 4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |



For number of Bars, spacing and
Sheet 3 for Conventional Reinforcement,
Sheet 4 for WWR.


PARTIAL SECTION THRU WEB (SHOWING BOTTOM FLANGE) (End 1 Shown, End 2 Similar
(Bars $4 Y$ \& Strands not shown for clarity


SKEWED BEAM END DETAILS FOR WIDENING EXISTING BRIDGES



FOR WELDED WIRE REINFORCEMENT


PARTIAL SECTION AT CENTER BEAM


PARTIAL BEAM END VIEW (Conventional Reinforcing Bars A, Y and Bottom Strands not Shown for Clarity)
notes:
a. See Sheet 3 for placement details \& Table of Beam

Variables in Structures Plans for variables S1, S2, S3,
$54 \& V 1$.
b. Place Conventional Reinforcement Bars 5A as shown on
Sheet 3. Place additional Bars $4 Y$ as shown in Section A-A for WWR. Bars $5 Z$ will not be used with the WWR Option. Pieces may be fabricated in multiple length sections.
d. For beams with skewed end conditions, Pieces D-1\&D-2 Shall not be used; Conventional Reinforcement Bars D1 \&
D2 shall be used. See Sheet 2 Skew Details and Sheet 1 D2 shall be used. See Sheet 2 Skew Details and Sheet 1
Note 9 for placement details. Shift Pieces $K \&$ Bars $4 Y$ to Note 9 for placement details. Silt Pieces $K \&$ Bars 4 to
accommodate skewed end conditions and align with Bars D.

STANDARD DETAILS
Index Sheet
450-120 4 of 4

